

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison efficacy of IPL (Intense pulsed light) combined with oral azithromycin with oral azithromycin alone in the treatment of moderate to severe papulopustular Acne vulgaris.

Protocol summary

Summary

The aim of this study is to compare the effects of oral azithromycin with IPL with oral azithromycin alone in treating moderate to severe papulopustular acne vulgaris. This study is a randomized, single-center study without placebo-controlled groups. Patients with moderate to severe acne, ranging between 18 to 40 years of age will be enrolled in the study. Patients with a history of connective tissue disease, pregnancy and lactation will be excluded. Forty patients with acne vulgaris referred to Sina hospital, randomly (interlaced) will be divided into two parallel groups of intervention and control. Informed consents will be filled out by participating patients. The intervention group will be treated with azithromycin 250 mg orally per day and IPL once a week, for 5 weeks. The control group will receive only azithromycin 250 mg orally per day. The number of papules and Pustules will be recorded at the beginning and at the end of the study. The primary outcome measure will be reduced number of lesions.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201701099844N4**

Registration date: **2017-06-20, 1396/03/30**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-06-20, 1396/03/30

Registrant information

Name

Mehdi Amirnia

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1540 6612

Email address

amirniyam@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Tabriz University of Medical Sciences

Expected recruitment start date

2016-02-20, 1394/12/01

Expected recruitment end date

2017-05-22, 1396/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison efficacy of IPL (Intense pulsed light) combined with oral azithromycin with oral azithromycin alone in the treatment of moderate to severe papulopustular Acne vulgaris.

Public title

The effect of laser in the treatment of acne

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patients with moderate to severe acne; Age ranges between 18 to 40 years. Exclusion criteria: A history of connective tissue disease; Pregnancy and

lactation (breast-feeding); a previous history of keloids and hypertrophic scars; Photosensitivity; History of Isotretinoin consumption during the past 6 months.

Age

From **18 years** old to **40 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Tabriz University of Medical Sciences

Street address

Third floor, Central Building 2 , Tabriz Medical Sciences University, Gholgasht ave , Tabriz

City

Tabriz

Postal code

5163639888

Approval date

2016-11-07, 1395/08/17

Ethics committee reference number

IR.TBZMED.REC.1395.938

Health conditions studied

1

Description of health condition studied

Acne vulgaris

ICD-10 code

L70.0

ICD-10 code description

Acne vulgaris

Primary outcomes

1

Description

Severity of acne

Timepoint

week zero and third month

Method of measurement

Counting

Secondary outcomes

1

Description

Number of papule and Pustule

Timepoint

week zero and third month

Method of measurement

Counting

Intervention groups

1

Description

They will Treat with azithromycin 250 mg orally per day and IPL. IPL will perform weekly for 5 weeks for patients in the intervention group. Treatment period is 3 months.

Category

Treatment - Other

2

Description

Control group: Only receive azithromycin 250 mg orally per day. Treatment period is 3 months.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Dermatology clinic of Tabriz Sina Hospital

Full name of responsible person

Niloofar Afshari

Street address

between Montazeri Intersection and Hafez St,Azadi Ave

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Tabriz University of Medical Sciences

Full name of responsible person

Hassan Soleimanpour

Street address

Vice chancellor for research, Tabriz University of Medical Sciences, Tabriz University of Medical Sciences, , Daneshgah Avenue, Tabriz, East Azarbayjan, Iran

City

Tabriz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

empty

Person responsible for general inquiries**Contact****Name of organization / entity**

Tabriz Medical University

Full name of responsible person

Mehdi Amirnia

Position

Dermatologist

Other areas of specialty/work**Street address**

Faculty of medicine, Tabriz University of Medical Sciences, Golgasht st.

City

Tabriz

Postal code

5163639888

Phone

+98 41 3540 6612

Fax

+98 41 3540 6612

Email

amirniyam@tbzmed.ac.ir

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Tabriz University of Medical Sciences

Full name of responsible person

Mehdi Amirnia

Position

Dermatologist

Other areas of specialty/work**Street address**

Faculty of medicine, Tabriz University of Medical Sciences, Golgasht st.

City

Tabriz

Postal code

5163639888

Phone

+98 41 3540 6612

Fax

+98 41 3540 6612

Email

amirniyam@tbzmed.ac.ir

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Tabriz University of Medical Sciences

Full name of responsible person

Niloofar Afshari

Position

Resident of Dermatology

Other areas of specialty/work**Street address**

Faculty of medicine, Tabriz University of Medical Sciences, Golgasht st.

City

Tabriz

Postal code

5163639888

Phone**Fax****Email****Web page address****Sharing plan****Deidentified Individual Participant Data Set (IPD)**

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty